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EX PARTE

July 13, 1999

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FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

Ms. Magalie Roman Salas, Secretary
Federal Communications Commission
The Portals
Room TW-A325
445 Twelfth Street, S.W.
Washington, D.C. 20554

EX PARTE OR LATE FILED

RE: CC Docket No. 98-121

Dear Ms. Salas:

The attached documents relating to U S WEST's Operational Support Systems (OSS) and U S WEST's proposal for OSS testing were requested by Mr. David Kirschner of the Common Carrier Bureau staff during telephone conversations held on June 30 and July 1, 1999. An ex parte of those conversations is being filed concurrently with this ex parte presentation in the above-captioned proceeding.

In accordance with Section 1.1206(b)(2) of the Commission's rules, an original and one copy of this letter and the attachments are being filed with your office for inclusion in the record of this proceeding. Mr. Kirschner is also being served with a copy of this ex parte.

Sincerely,

Andrew D. Crain
Andrew D. Crain (RW)

cc: David Kirschner

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U S WEST Wholesale PROGRAM

Project Name: 271 Test Plan

Date: 7/13/99

Author: U S WEST Communications, Inc. - Information Technologies

Abstract: The objective of this document is to outline the approach for an independent third party to conduct functional end-to-end and capacity testing of the access U S WEST provides to its OSS systems via the U S WEST electronic gateways. Third party evaluation is targeted to cover the Pre-Order/Order, Provisioning, Billing, and Maintenance & Repair capabilities in IMA and EDI for Pre-Order, Order and Provisioning activities, EB-TA and IMA for Maintenance and Repair activities, and EMI, and EDI for Billing.

Table of Contents

1. BUSINESS SCOPE	3
1.1 BUSINESS PROJECT DESCRIPTION	3
1.1.1 <i>Electronic Gateways</i>	4
1.1.2 <i>Order Types</i>	4
1.2 REFERENCED DOCUMENTS	5
2. STRATEGY SCOPE	5
2.1 PROJECT DESCRIPTION	5
2.1.1 <i>Southwestern Bell Company Approach</i>	5
2.1.2 <i>U S WEST's Proposed Strategy</i>	7
2.1.3 <i>U S WEST's Modifications from the SBC Texas Plan</i>	11
2.1.4 <i>Test Participants</i>	11
2.2 NEXT STEPS	14
3. ASSUMPTIONS, CONSTRAINTS, AND DEPENDENCIES	14
3.1 ASSUMPTIONS	14
4. PROPOSED TEST STRATEGY PROJECT DELIVERABLES	15
4.1 PROJECT TASKS	15
ATTACHMENT A	18

1. Business Scope

1.1 Business Project Description

The Federal Communications Commission (FCC) has indicated that for U S WEST Communications (U S WEST) to obtain 271 relief, it must demonstrate that:

- It provides non-discriminatory access to its OSS (Operational Support Systems);
 - For those capabilities that have a retail analog (e.g., ordering of resale), U S WEST must provide access in substantially the same time and manner that it provides itself;
 - For those capabilities without a retail analog (e.g., ordering of unbundled network elements), U S WEST must provide access that allows an efficient competitor a meaningful opportunity to compete;
- Its systems are operationally available and ready to perform based on foreseeable future projections;

In order to demonstrate that U S WEST's provision of access to OSS functionality enables and supports CLEC entry into the local telecommunications market as well as fulfills regulatory and statutory requirements, U S WEST proposes evaluation of this access by an independent third party.

To this end, this plan documents a testing proposal associated with the retention of a third party to conduct functional end-to-end and capacity testing of the U S WEST OSS systems via the U S WEST electronic gateways. Additionally the third party would provide:

- validation of the master test plan;
- validation of functional test coverage and scenarios;
- validation of capacity test coverage and scenarios;
- validation that U S WEST is following performance measure business rules;
- validation of scalability of U S WEST systems;
- monitoring of test sites and activities, the test planning schedule and test execution schedule, and baselined documents;
- a Third Party Consultants report;
- report results to the commission(s); and
- technical advice to the commission(s).

The targeted scope of third party testing would cover an assessment of functionality including non-discriminatory access and capacity for access to U S WEST Operational Support Systems (OSS).

Functionality included in the targeted scope of third party testing is Pre-Order/Order, Provisioning, Maintenance & Repair, and Billing. Directory Listings will be covered using test scenarios within each of the previously defined capabilities.

1.1.1 Electronic Gateways

Electronic gateways considered within the scope of this testing are IMA and EDI for Pre-Order and Order, EB-TA and IMA for Maintenance and Repair and, EMI and EDI for Billing.

1.1.2 Order Types

U S WEST's test will cover the various order types associated with the three modes of CLEC entry: Resale, Unbundled Network Elements and Number Portability. Testing will include both residence and business orders and will encompass new, conversion "as specified", partial migrations, change, disconnect, cancel and suspend and restore order types as relevant to the specific product scenario being tested. U S WEST's OSS systems will generate acknowledgments, error rejections, Firm Order Confirmations (FOCs), Service Order Completions (SOCs) and manual jeopardy notifications to the CLECs as relevant to the specific product scenario being tested.

Product types and their definitions targeted to be tested through the electronic gateways during third party testing are listed below. These product types correlate to the Southwestern Bell Company (SBC) Master Test Plan list of identified product types.

1.1.2.1 Electronic Gateway Processing

The following product types will be processed via the electronic gateways:

- Resale - The test scenarios to be included in the resale test are:
 - Retail to Resale Conversion – U S WEST Customer converts to CLEC
 - Resale – New Connect
 - Suspend and Restore - CLEC initiates a request to suspend a customer service and may later initiate a request to restore the service.
- Unbundled Network Elements –The test scenarios to be included in this test for UNE-C and UNE-L orders are:
 - Retail to UNE-C Conversion - U S WEST customer converts to CLEC;
 - Retail to UNE Loop - U S WEST customer converts to CLEC, where unbundled loop is leased from U S WEST by CLEC;
 - Retail to UNE-L with Number Portability - U S WEST customer converts to CLEC, where unbundled loop with number portability is leased from U S WEST by CLEC;
 - UNE-L New - End user establishes new service (i.e., UNE-L) with CLEC;

- UNE-L with Number Portability Conversion - End user establishes new service (i.e., UNE-L) with CLEC and ports existing number;
 - Retail to Number Portability - U S WEST customer converts to a CLEC keeping the same TN but using only CLEC facilities;
 - UNE-L Outside Move - End user moves to a different location;
 - UNE-C Change - Request to change a feature;
 - UNE-C Disconnect – Service is disconnected from the end-user;
 - UNE-L Disconnect – Service is disconnected from the end-user; and
 - UNE-L-ADSL – Test focus will primarily be to validate the ordering, loop qualification and billing functionality.
- Number Portability – The ability of the CLEC to migrate the customer’s service while allowing the customer to retain their existing telephone number.

1.2 Referenced Documents

Related Document Release No.	Release Date	Document Description
	April, 1999	The Public Utility Commission of Texas Southwestern Bell (SWB) OSS Evaluation Master Test Plan

2. Strategy Scope

2.1 Project Description

The creation of the SBC Texas Master Test Plan involved detailed collaboration among the Texas Public Utilities Commission, the independent third party (Telcordia), SBC, and several CLECs. U S WEST believes that there is no reason to duplicate that effort and replication of the SBC third party testing effort will best demonstrate that U S WEST has provided the necessary access to its OSSs. The following sections highlight SBC’s test approach, the U S WEST testing approach, necessary modifications to the SBC plan, test participant roles, test tasks, and test scenarios to be performed.

2.1.1 Southwestern Bell Company Approach

Southwestern Bell Company (SBC) is currently involved in third party testing. SBC is performing this testing in the state of Texas with oversight by the Texas PUC. An RFP was conducted to select a third party vendor and Telcordia was chosen by the PUC. Please see section 2.1.1.2 for the timeframes associated with SBC’s testing activities.

2.1.1.1 SBC's Test Approach

The following section highlights SBC's test approach as determined from the SBC Master Test Plan, Issue 3.1, April, 1999.

SBC collaborated with the Texas PUC, interested CLECs and Telcordia to develop a third party test plan that would evaluate SBC's OSSs. The scope of SBC's third party test was developed to include various order types associated with the three modes of CLEC entry: Resale, UNE-P and UNE-L and Number Portability. For each mode of entry the functional areas of pre-order, order, provisioning, maintenance and repair and billing were tested. Testing included both residence and business orders and encompassed new, conversion "as specified", partial migrations, change, disconnect, cancel, and suspend and restore order types. From an order perspective, the SBC OSSs generated acknowledgments, error rejections, Firm Order Confirmation (FOCs), Service Order Completions (SOCs), and manual jeopardy notifications to the CLECs. In addition, testing also included items such as a variety of feature combinations, directory listings, hunting, 900/976 blocking, toll restrictions and extended area calling.

The SBC third party test incorporated two different types of tests: functionality tests and capacity tests. Functionality tests focused on both the mechanized and manual support functions. It also included the evaluation of SBCs OSSs' ability to meet a set of pre-defined performance measures as defined in the Texas PUC Final Staff Status Report on Collaborative Process document. These performance measures were used to evaluate parity or applicable benchmarks between the service SBC provides to its own retail customers and the service SBC provides to its CLEC customers. Functionality test volumes were approximately 1,000 pre-order queries and 250 LSRs per day.

Capacity tests focused on the ability of the SBC OSSs to support a given mechanized workload (clean LSRs that do not require manual intervention) based upon CLEC 1Q2000 forecasts. SBC estimated that for every 5.12 pre-order queries, SBC received one LSR. Therefore, 40,960 pre-order queries and 8,000 LSRs were identified as the daily capacity volume. Per hour capacity volumes were expected to follow the same guidelines, however were not identified in the test plan.

In general, capacity testing conducts a pre-determined set of error free test scenarios while functionality testing incorporates a set of the most common error scenarios. The number of error scenarios to be tested in the functionality test was unknown to the SBC testing staff.

In addition to the functionality and capacity tests described previously, all performance measures (including those not associated with the tests) were evaluated for statistical validity and a sample of them were evaluated for correctness of the calculations.

2.1.1.2 SBC Timeframes

SBC set forth the following timeframes for its third party test. End-to-End from project plan development through functional and capacity test analysis took from mid December 1998 through mid-July 1999. This timeframe does not include the activities of gaining commission approval for third party test oversight nor does it include collaboration with both the commission and interested CLECs to solicit for and select a third party vendor.

- No timeframe available Collaborative Process with CLECs, oversight by the Texas PUC
- No timeframe available RFP issued by Texas PUC for third party business partner.

- No timeframe available Telcordia engaged under letter of intent after completion of business partner RFP.
- January 25 – March 11 Development of Project Plan and Baseline Requirements
- February 1 – March 31 Development of Master Test Plan
- February 8 – March 3 Develop Test Timeline
- December 14 – March 17 Develop Functional Test Plan
- January 27 – March 24 Provide CLEC Test Plan to Third Party Assessor
- January 27 – March 31 Functional Test Preparation
- January 27 – March 30 Prepare Test “Friendlies”
- April 1 – June 22 Functional Test Execution
- April 1 – June 28 Functional Test Analysis/Approval
- January 14 – March 15 Capacity Test Planning
- April 2 – April 8 Capacity Test Preparation
- April 5 – May 15 Capacity Test Execution
- May 18 – June 22 Capacity Test Analysis

2.1.2 U S WEST’s Proposed Strategy

With the SBC Texas Master Test Plan as a backdrop, a strategy has been created for the startup and conducting of a third party test at U S WEST. U S WEST’s strategy will duplicate the SBC Texas Master Test Plan in terms of conducting a functional test and a capacity test. Modifications from this plan will be required due to environmental differences and are documented in section 2.1.4.

2.1.2.1 Test Scope

The scope of testing is based on the test scenarios agreed upon by collaborating entities involved in the SBC testing with necessary modifications based on U S WEST supported products. These test scenarios will be processed with the generation of test transactions and test data by designated third parties and CLEC data.

2.1.2.1.1 Functional Test Scope

The functionality test will test the end-to-end processes from pre-ordering through provisioning, maintenance and repair, and billing. Testing will be performed with U S WEST’s production OSSs and processes. The test will focus on Resale, UNE-C, UNE-Loop, UNE-Loop with Number Portability, and Number Portability types of services. The test will also focus on U S WEST’s ability to meet a set of pre-defined U S WEST performance measures. The specifics for testing each interface are documented below.

Pre-Order/Order/Provisioning Interfaces:

Pre-ordering/ordering is the process that allows CLECs the ability to query U S WEST’s databases to verify or obtain certain information necessary to issue a valid LSR. Provisioning consists of the processes by which the CLEC LSR is submitted to U S WEST for processing.

The pre-order, order, and provisioning functionality test will involve the following interfaces:

- EDI: U S WEST proposes using a third party-developed test transaction generator to test the EDI Pre-Order/Order interface.
- IMA GUI: U S WEST proposes using a combination of third party-developed test transaction generator data and CLEC supplied data for the IMA GUI Pre-Order/Order test.

Maintenance and Repair Interfaces:

Maintenance and Repair (M&R) is the ability for the CLECs to report trouble to U S WEST and check the status of the reported trouble. Any trouble that is related to the test scenarios and occurs within the test interval will be considered part of the test.

The Maintenance and Repair functionality test will involve the following interfaces:

- EB-TA: U S WEST proposes collaboration with one or more CLECs to test the existing EB-TA connection for Maintenance and Repair test transactions.
- IMA GUI: U S WEST proposes using a combination of third party test transaction generator data and data from the U S WEST Coin Group for Maintenance and Repair test transactions.

Billing Interfaces:

Billing is the ability of U S WEST to provide the CLECs with an accurate wholesale bill and usage data, records for the services, features, network items (e.g., loop, port) and functions that were ordered and provisioned. The primary OSS focus is to validate the ability of the billing systems to receive the input in a timely manner and process the bill accurately.

The Billing functional test will involve the following interfaces:

- EMI: (Exchange Message Interface) – This is an ATIS standard format of messages used for the interchange of telecommunications message information among telephone companies. Telephone companies use EMI to charge billable, non-billable, sample, settlement and study data.
- EDI: (Electronic Data Interface) – This standard allows for the transmission of billing data between trading partners. EDI software translates fixed field or “flat” files that are extracted from applications into a standard format and hands off the translated data to communications software for transmission.

2.1.2.1.2 Capacity Test Scope

The capacity test is different from the functionality test, since it is constructed of a repeatable, controlled, and usually simulated test load. For the purposes of this capacity test, the mechanized interfaces provided for local competition will be tested. Therefore, a restricted subset of end-to-end functionality will be used as the input workload to drive the system. This workload will mimic the 4Q2000 forecast. It is recognized that a balance between simplicity of testing and statistical soundness of the analysis must be reached in determining the appropriate test conditions.

The capacity test will include tests for evaluating the capacity of U S WEST's pre-order and ordering OSSs for Resale, UNE-C, UNE-Loop, UNE-Loop with Number Portability and Number Portability types of service. Testing will be performed with U S WEST's production systems.

For each of these tests and for each OSS in the pre-order, order, and provisioning OSSs, the capacity test will help evaluate the following:

1. Selected performance measures for which the appropriate capacity measure is established;
2. Standard computer metrics (such as processor utilization); and
3. OSS scalability, which explains both procedures for capacity expansion and provides estimates of the largest volume that the OSS configuration accepts under normal conditions.

For the ordering capacity test, clean LSRs will be used. The intent is to validate the capacity of the systems and not the functionality across extensive local service request types.

2.1.2.2 Test Data

2.1.2.2.1 CLEC Data Component

The CLEC data component adds the use of CLEC data to the functional test component. For this component, a subset of the overall test data would be provided by CLECs. A key task of this component is to identify CLECs that are actively using IMA and EB-TA to solicit their participation in the third party test to submit LSRs and repair tickets for the test product set.

A step toward the identification of these CLECs would be to analyze current statistics from the U S WEST Interconnect Service Centers. These statistics could be used to identify by product type which CLECs are using IMA to submit LSRs. The identification and recruitment of CLECs based on a proper product mix and transaction volume will determine the amount and types of data that would need to be generated by the test transaction generator.

2.1.2.2.2 Third Party Data Component

The Third Party Data Component adds the use of pseudo CLEC data to the functional test component. A third party "test transaction generator" will issue the required transactions where limited or no ability exists for a CLEC to generate the required activity. This solution will enable U S WEST to best complete the scope of the SBC test without having to rely on currently unknown EDI development and testing completion timelines by the CLECs.

2.1.2.2.3 Test Accounts/Customer Data

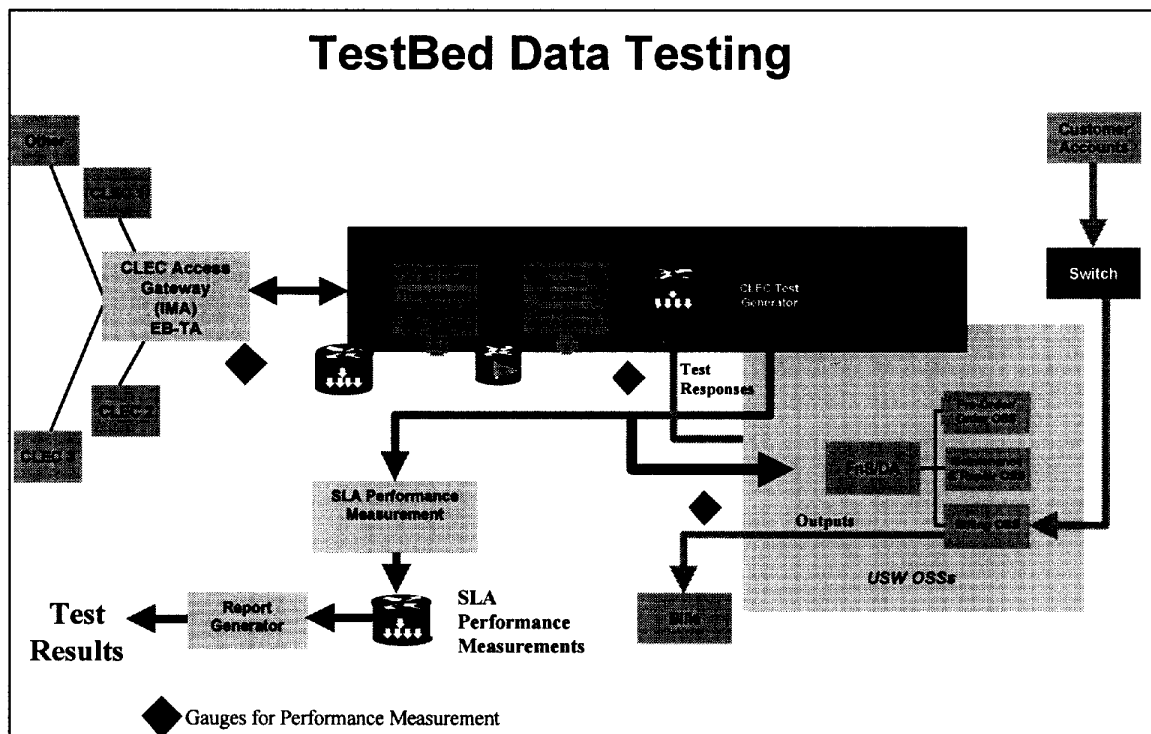
Customer test accounts must be identified to provide for the functional/performance measures testing. There must be enough accounts defined to support the test loadings during the functional tests in order to support acquiring the right sample amount to determine performance measures with a high degree of confidence (i.e., a given sample amount will help statistically assure a certain confidence level). Since a production environment approach is primarily being used, these accounts must reflect "real" customers and facilities. The accounts may be used to conduct all aspects of the test including the generation of bill usage data. The accounts will consist of

U S WEST, CLEC, and the Commission employees. The following diagram depicts the electronic interfaces within the scope of the test and the corresponding party that may generate the test transactions.

	CLEC	Third Party Technical Partner	USW Coin	Test Account Customer
Pre-order, Ordering, Provisioning				
IMA GUI	X	X		
EDI		X		
Maintenance & Repair				
IMA GUI		X	X	
EB-TA	X			
Billing				
Wholesale Summary Bill	X	X		
Usage				X

2.1.2.3 Test Diagram

The test scope described in sections 2.1.2.1.1 – 2.1.2.1.2 is pictorially represented below:



2.1.3 U S WEST's Modifications from the SBC Texas Plan

Due to environmental differences, the U S WEST plan will require modifications from the SBC Texas Master Test plan. Planned modifications are outlined below.

- SBC Texas requires CLECs to use two different interfaces for pre-order and order/provisioning transactions while U S WEST provides integrated interfaces for both the Pre-Order, Order, and Provisioning transactions.
- SBC Texas provides CABS billing documents to CLECs. U S WEST provides EDI billing documents to CLECs.
- U S WEST will rely on the SBC Texas collaborative effort for test plan development rather than repeat this process.
- U S WEST performance measures will be used to validate the test results.
- U S WEST will support all test scenarios defined in Appendix A of this document except those marked as not available.
- The SBC Texas plan utilizes CLEC existing interface connections to test the pre-order/order transactions. To date, U S WEST does not have any Cliches capable of issuing the required scope of EDI test scenarios. U S WEST will utilize a third party vendor for testing the EDI pre-order/order interface. (U S WEST will also need to utilize a technical vendor for the capacity portion of both the IMA and EDI test.)
- U S WEST intends to use a 14 state order volume mix for test data during its third party test.
- SBC Texas test plan tests UNE-P while U S WEST's product offering is UNE-C. UNE-C will be incorporated into the U S WEST test plan.
- U S WEST will demonstrate its change control process within the scope of the testing effort due to the installation of a new release and/or systems modifications.

2.1.4 Test Participants

The SBC Texas Master Test Plan was based on a collaborative process with CLECs, Commission staff, and SBC staff. Rather than redefining a test plan, U S WEST intends to use the SBC Texas Master Test Plan as its baseline test plan. Therefore, U S WEST recommends the following test participants and roles:

2.1.4.1 State Commission (s)

The role of the State Commission(s) is to:

- Oversee the development of the functionality and capacity tests;
- Oversee the test process;
- Agree on the definition of the test scope;

- Ensure a collaborative process is implemented/followed;
- Provide final approval of “baseline” documents, including the Master Test Plan with input from all involved parties;
- Approve and/or specify data retention policy for participants;
- Appoint a test manager to manage the test activities; and
- Make a final recommendation to the FCC of U S WEST’s readiness for local competition, based upon reported test results.

2.1.4.2 Third Party Business Partner

The Third Party Business Partner’s role is to:

- Validate the Functionality Test coverage as defined in the Master Test Plan;
- Validate the Functionality Test;
- Validate the Capacity Test coverage as defined in the Master Test Plan;
- Validate the Capacity Test;
- Validate U S WEST is following performance measure business rules as defined by U S WEST and documented in the Master Test Plan;
- Validate scalability of relevant U S WEST systems;
- Define the overall test planning via this Master Test Plan document;
- Monitor test execution, including:
 - Monitor test sites and activities;
 - Track test planning schedule and identify missed milestone;
 - Track test execution schedule and identify missed milestones;
 - Track status of baselined documents; and
- Provide a “Third Party Business Partner’s Evaluation Report”.

In addition to the actual processing of test data and the analysis of results, the tools of auditing, monitoring, reviewing, and interviewing will also be employed. These tasks will be the primary responsibilities of the third party business partner.

2.1.4.3 Third Party Technical Partner

The role of the third party technical partner is to:

- Configure the test transaction generator to the U S WEST environments;
- Execute EDI and other necessary functional test scenarios;
- Execute IMA and EDI capacity scenarios;
- Generate statistics to validate test completion success/failure; and
- Provide a “Third Party Technical Partner’s Evaluation Report”.

2.1.4.4 CLECs

The role of each CLEC with respect to the tests is as a direct participant in the test. CLEC Test Participant’s role is to:

- Provide detailed Test Specifications;
- Provide Test Execution Plans (including Functionality and Capacity Tests);
- Provide for Test Execution;
- Provide test support and Subject Matter Experts (SMEs) as necessary to the Third Party Consultant and/or the Commission;
- Provide list of primary, SME and escalation contacts to test management team;
- Support other test activities for all phases as described in this Master Test Plan;
- Provide Daily Reports (see Section 3.3.2) to the test management team;
- Provide action item and test management jeopardy (as appropriate) action plans and associated progress reports to test management team;
- Designate recipients of each report (e.g., daily, action item status); and
- Provide “Test Participants’ Results Document” at the completion of their respective tests.

2.1.4.5 U S WEST Internal Test Team

U S WEST will be a direct participant in the third party test. The role of U S WEST is to:

- Gain agreement on the Master Test Plan;
- Provide the U S WEST OSS environment to be used for the test (i.e., production environment);
- Provide test support and Subject Matter Experts (SMEs) as necessary;
- Support as SMEs the test definition, planning, execution and test activities for all phases as described in the master test plan;

- Provide for preparation, setup and access to the U S WEST production components for the tests as necessary (primarily for monitoring by the Third Party Consultant);
- Provide system processing data necessary to understand the resource usage for the test workload;
- Provide physical configurations for the U S WEST systems used for the tests; and
- Extract appropriate data and compute the performance measures.

2.2 Next Steps

U S WEST intends to pursue an SBC-like approach to collaborative efforts and to the selection of third party vendors. The following sections outline the major categories of test setup and execution that must occur.

- Collaboration among third party vendors, regulatory entities, and U S WEST to gain consensus on U S WEST's use of the SBC Texas Master Test Plan
- Establishment of connectivity between pseudo CLEC and U S WEST
- Selection of a technical partner vendor
- Set-up of pseudo CLEC environment by third parties
- Selection of a business partner by U S WEST
- Selection of an internal U S WEST team
- Selection of CLEC partners; setup of CLEC test environment
- Begin collaboration on baseline testing requirements using the SBC Texas Master Test Plan
- Development of a project plan and baseline requirements
- Creation of test data and test cases
- Cleanup of test account data throughout OSSs

3. Assumptions, Constraints, and Dependencies

3.1 Assumptions

- Combined test team will use the SBC Master Test Plan as baseline requirements for the testing process.
- Any third party support contract costs will include hardware for the pseudo-CLEC needs of the test, unlimited processing of transactions, and cost of human resources.

- U S WEST will be responsible for the installation and cost of the necessary connectivity facilities (including T1s) up to the interconnection demarcation point with the third party pseudo-CLEC.
- Testing will begin prior to the October IMA 4.2 delivery and the August downstream delivery schedules for those products/scenarios that are not dependent on development delivery schedules. For those products/scenarios that are dependent on development delivery schedules, testing will begin as soon as reasonably possible after delivery to production.
- The SBC master test plan employs the use of a root cause analysis on all rejected orders. U S WEST's third party test will employ the same process of completing a root cause analysis on all rejected orders.
- The SBC master test plan uses the third party business partner in an oversight role and not one of execution of tests. U S WEST anticipates the same oversight role for the third party business partner for the duration of the third party test.
- U S WEST will be able to use data provided by CLECs currently using IMA GUI to submit LSRs.
- U S WEST will use a pseudo CLEC test transaction generator using EDI to submit LSRs.
- The capacity test will be conducted using data generated via the test transaction generator.
- U S WEST will collaborate with one or more CLECs currently using IMA to submit LSRs.
- U S WEST will collaborate with one or more CLECs in testing EB-TA Maintenance and Repair transactions.
- U S WEST will collaborate with the U S WEST Coin Group in testing the IMA GUI Maintenance and Repair transactions.
- The capacity test will be based on orders that are Service Order Constructor (SOC) capable.

4. Proposed Test Strategy Project Deliverables

4.1 Project Tasks

High-level project tasks are documented in the table below. Owners, both internal and external to U S WEST, for the tasks will be identified in the project plan to be developed.

Task Area	Major Tasks
OSS and OSS Interface Testing Project Management	<ul style="list-style-type: none"> • Acquisition of staff and organization of teams. • Creation of Master Test Plan. • Plan coordination with stakeholders. • Creation of project plan.

Task Area	Major Tasks
Collaboration with Regulatory Entities	<ul style="list-style-type: none"> • Presentation of Master Test Plan and gaining of consensus on plan from regulatory bodies. • Gain regulatory consensus on the use of the SBC Texas Master Test Plan with limited modifications. The modified master test plan will identify measurements to be used, establish and define level of monitoring required for testing, data creation and test execution. • Definition of Test Account scenarios, management and validation
Setup and Manage Test Process	<ul style="list-style-type: none"> • Define and baseline test scenarios. • Development of detailed test plans with resource assignment. • Definition of historical data review procedures. • Identifying and acquiring training resources. • Environment setup and connectivity establishment with pseudo CLEC and Third Party technical partner. • Modification of test generator, loading of test scenarios and rules base. • Creation of test data and identification of live data instances. • Development of final test schedule including coordination with test generator vendor and participating CLECs.
Test Execution Process	<p>Test preparation</p> <ul style="list-style-type: none"> • Create test cases. • Definition of test entrance criteria. • Definition of final reporting requirements. • Assignment of test data to created test cases. • Acquirement of historical data, assignment of monitoring resources. • Satisfaction of test entrance criteria. <p>Test Execution</p> <ul style="list-style-type: none"> • Generation & submission of transactions (requests). • Collection of test responses and logging of events. • Creation of data summaries and analyses. • Reporting of test process exceptions and Root Cause Analysis on rejected orders. • Perform data analysis and business process monitoring. • Satisfaction of test exit criteria. <p>Test Completion</p> <ul style="list-style-type: none"> • Documentation of test results. • Reporting of test process exceptions and Root Cause analysis. • Completion of test exit criteria.

Task Area	Major Tasks
Change Management	<ul style="list-style-type: none">• Execution of a change control process to handle newly developed functionality implementation to a production environment during the third party test.• Identification of correct stakeholders.• Identification, analysis, testing, and documentation of approved testing changes.• Maintenance of all change history documentation.
Test Results Analysis/Approval	<ul style="list-style-type: none">• Verification of entrance and exit criteria for both the functionality and capacity tests.• Provide test results, data records and analysis for both the functionality and capacity tests.• Provide Performance Measures data and results for the functionality test.• Validate results for both the functionality and capacity test.

ATTACHMENT A

The following attachment identifies the test scenarios as outlined in the SBC Texas Master Test Plan that U S WEST can support through its pre-order, order, and maintenance and repair electronic interfaces. These scenarios have been evaluated based on U S WEST's analysis of the SBC test scenarios and not through detailed discussions with SBC or Telcordia.

Test Scenario Coverage Matrix

SBC																			USWC		
Scenario #	Order Type	Act Type/ Req Type	Scenario											Directory Listings					DL Explanation	Maintenance Issue	Supported Scenario
				Res SL	Res ML	Bus SL	Bus ML	Hunting	EAS	No Features	Singe Feature	Multiple Features	Straight Line	Non-Published	Dual Name	Additional Listing	Non-listed	Caption			
Retail to UNE-C Conversion (residence)																					
1.R.S.1.1-18	Retail to UNE-C	V/M	Convert 1 Res line, no features, straight line main listing	X						X			X						Main line listed – straight line main listing	No Dialtone (2)	Y
1.R.S.2.1-18	Retail to UNE-C	V/M	Convert 1 Res line, no features, Non-pub listing	X						X				X					Main line non-pub		Y
1.R.S.3.1-18	Retail to UNE-C	V/M	Convert 1 Res line, single feature, dual name listing	X							X				X				Main line listed – straight line main listing dual name		Y
1.R.S.4.1-18	Retail to UNE-C	V/M	Convert 1 Res line, single feature, additional listing	X							X					X			Main line listed straight line main listing and additional listing		Y
1.R.S.5.1-18	Retail to UNE-C	V/M	Convert 1 Res line, multiple features, non-listed	X								X					X		Main line – non-listed		Y
1.R.S.6.1-18	Retail to UNE-C	V/M	Convert 1 Res line, multiple features, caption listing	X									X						Main line – listed with additional main line listing using caption indent		Y
1.R.S.7.1-18	Retail to UNE-C	V/M	Convert 1 Res line, multiple features, straight line main listing and additional listing	X								X	X			X			Main line listed straight line main listing and additional listing		Y
1.R.M.8.1	Retail to UNE-C	V/M	Convert 2 Res lines, no features, non-pub listing		X					X				X					Main line non-pub for both lines		Y

SBC																		USWC		
Scenario #	Order Type	Act Type/ Req Type	Scenario											Directory Listings				DL Explanation	Maintenance Issue	Supported Scenario
				Res SL	Res ML	Bus SL	Bus ML	Hunting	EAS	No Features	Singe Feature	Multiple Features	Straight Line	Non-Published	Dual Name	Additional Listing	Non-listed			
1.R.M.9.1	Retail to UNE-C	V/M	Convert 2 Res lines, no features, additional listing		X					X						X	Main line listed straight line main listing and additional listing for both lines		Y	
1.R.M.10.1	Retail to UNE-C	V/M	Convert 2 Res lines, 2-Way EAS, no features, non-listed		X				X	X						X	Main line non-listed for both lines		Y	
1.R.M.11.1	Retail to UNE-C	V/M	Convert 2 Res lines, single feature, non-listed		X						X					X	Main line non-listed for both lines		Y	
1.R.M.12.1	Retail to UNE-C	V/M	Convert 2 Res lines, single feature, caption listing		X						X						Main line caption indent for both lines		Y	
1.R.M.13.1	Retail to UNE-C	V/M	Convert 2 Res lines, single feature, 2-Way EAS with circular hunt & non listed		X			X	X		X					X	Main line of hunt group non-listed		Y	
1.R.M.14.1	Retail to UNE-C	V/M	Convert 2 Res lines, multiple features, straight line main listing		X							X	X				Main line listed straight line main listing for both lines		Y	
1.R.M.15.1	Retail to UNE-C	V/M	Convert 2 Res lines, single feature, non-pub listing		X							X		X			Main line non-pub for both lines		Y	
1.R.M.16.1	Retail to UNE-C	V/M	Convert 2 Res lines, multiple features, 2-Way EAS with straight line main listing		X				X			X	X				Main line listed – straight line main listing for both lines		Y	
1.R.M.17.1	Retail to UNE-C	V/M	Convert 2 Res lines, multiple features, 2-Way EAS with circular hunt & non listed		X			X	X			X				X	Main lead line of hunt group – non-listed	Feature is not working (1)	Y	
Retail to UNE-C Conversion (business)																				
1.B.S.1.1-4	Retail to UNE-C	V/M	Convert 1 Bus line, no features, straight line main listing			X				X			X				Main line listed – straight line main listing		Y	

SBC																		USWC		
Scenario #	Order Type	Act Type/ Req Type	Scenario										Directory Listings					DL Explanation	Maintenance Issue	Supported Scenario
				Res SL	Res ML	Bus SL	Bus ML	Hunting	EAS	No Features	Singe Feature	Multiple Features	Straight Line	Non-Published	Dual Name	Additional Listing	Non-listed			
1.B.S.2.1-4	Retail to UNE-C	V/M	Convert 1 Bus line, single feature, additional listing			X					X					X		Main line listed – straight line main listing and additional listing		Y
1.B.S.3.1-4	Retail to UNE-C	V/M	Convert 1 Bus line, multiple features, caption listing			X						X						Main line listed – caption		Y
1.B.S.4.1-4	Retail to UNE-C	V/M	Convert 1 Bus line, multiple features, straight line main listing and additional listing			X						X	X			X		Main line listed – straight line main listing and additional listing		Y
1.B.M.5.1-4	Retail to UNE-C	V/M	Convert 2 Bus lines, no features, additional listing				X			X						X		Main line listed – straight line main listing and additional listing for both listings		Y
1.B.M.6.1-4	Retail to UNE-C	V/M	Convert 2 Bus lines, single feature, caption listing				X				X							Main line listed – caption listings for both lines		Y
1.B.M.7.1-4	Retail to UNE-C	V/M	Convert 2 Bus lines, multiple features, straight line main listing				X					X	X					Main line listed – straight line main listing for both lines		Y
1.B.M.8.1-4	Retail to UNE-C	V/M	Convert 2 Bus lines, multiple features, 2-Way EAS with straight line main listing				X		X			X	X					Main line listed – straight line main listing for both lines		Y
1.B.M.9.1-4	Retail to UNE-C	V/M	Convert 3 Bus lines, multiple features, 2-Way EAS, circular hunting with straight line main listing				X	X	X			X	X					Main line listed – straight line main listing		Y
1.B.M.10.1-4	Retail to UNE-C	V/M	Convert 2 Bus lines, multiple features, non-pub and non-listed				X					X		X		X		1 main line – non-listed and 1 main line – non-pub		Y